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**(54) PRODUCTION OF STRENGTHENED PLATINUM MATERIAL**

(57)Abstract:

PURPOSE: To produce a strengthened platinum material having stable creep strength in a shortened production time without causing swelling.

CONSTITUTION: An alloy obtd. by adding 0.05-1% at least one kind of element selected from among group IVa elements and lanthanoids to platinum is melted and solidified with a flame gun or an arc spray gun or by laser beam machining or wire explosion to form atomized powder. This atomized powder is subjected to oxidation treatment and wet-pulverized using an org. solvent by means of a pulverizer in an inert gaseous atmosphere. The resultant fine powder is dried, compacted, heat-treated, hot-forged, annealed and cold-rolled to produce the objective strengthened platinum material of the required shape.

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